## (FILE 'HOME' ENTERED AT 10:35:46 ON 06 JUN 2003)

|     | FILE | 'REGISTRY' ENTERED AT 10:36:02 ON 06 JUN 2003         |
|-----|------|---|
| L1  |      | 4 S DICYCLOPENTADIEN!# AND DIGLYCIDYL(W)ETHER         |
| L2  |      | 28 S DICYCLOPENTADIENE AND PHENOL AND EPICHLOROHYDRIN |
| L3  |      | 90 S BIPHENYL AND (DIGLYCIDYL(W)ETHER)                |
| L4  |      | 0 S TERPENE AND (DIGLYCIDYL(W)ETHER)                  |
| L5  |      | 0 S TERPENE AND EPICHLOROHYDRIN                       |
|     |      |   |
|     | FILE | 'CAPLUS' ENTERED AT 10:40:50 ON 06 JUN 2003           |
| L6  |      | 138 S (30420-32-7# OR 2461-46-3#)/RN                  |
| L7  |      | 7 S L6 AND ADHESIVE#                                  |
|     |      |   |
|     | FILE | 'REGISTRY' ENTERED AT 10:47:51 ON 06 JUN 2003         |
| L8  |      | 304 S TERPENE   |
| L9  |      | 14 S TERPENE AND EPOX!###                             |
|     |      |   |
|     | FILE | 'CAPLUS' ENTERED AT 10:50:14 ON 06 JUN 2003           |
| L10 |      | 312 S EPOX!?(3A)TERPENE#                              |

```
ΑN
     1963:403642 CAPLUS
DN
     59:3642
OREF 59:665b-e
     Relative rates of epoxidation of some terpenic molecules
     Mousseron-Canet, Magdeleine; Mousseron, Max; Levallois, Christine
ΑU
CS
     Ecole Natl. Chim., Montpellier, Fr.
SO
     Bulletin de la Societe Chimique de France (1963) 376-8
     CODEN: BSCFAS; ISSN: 0037-8968
DT
     Journal
LΑ
     Unavailable
AB
     cf. CA 58, 2428e. A study of the relative rates of epoxidation
     of various terpenes showed that selective epoxidation
     of polyenes was possible. Epoxidation was effected with a slight excess
     of monoperphthalic acid (I) at 0.degree. in Et2O soln.; the amt. of
     unreacted I was detd. iodometrically at various time intervals. The
     relative rates were: citronellol, 1; linalool, 1.2; linalyl acetate, 0.8;
     geraniol, 1.4; geranyl acetate, 0.85; 2,6-dimethyl-7-octen-6-ol (II),
     0.15; 2,6-dimethyl-6-acetoxy-7-octene (III), 0.15;
2,6-dimethyl-8-acetoxy-
     6-octene (IV), 0.15; myrcene, 0.8; nerolidol, 1.85. Citral (250 g.), 250
     g. K2CO3, and 2.5 l. H2O refluxed 12 hrs. gave 130 g.
     6-methyl-5-hepten-2-one, which was converted in 75% yield to the cyclic
     ketal (V) by heating 1 mole with 1.1 mole glycol in C6H6 with
     p-toluenesulfonic acid as catalyst. Hydrogenation of 78 g. V in petr.
     ether over Raney Ni under pressure at 100.degree. quant. gave the ketal
of
     6-methyl-2-heptanone, which on refluxing with dil. HCl gave 75%
     6-methyl-2-heptanone (VI). VI (35 g.), 7 g. Mg, and a satd. soln. of
vinyl
     chloride in anhyd. tetrahydrofuran gave 80% II, b15 90.degree.. PBr3 (8
     g.) added at 0.degree. to a stirred mixt. of 12 g. II, 2 cc. pyridine,
and
     20 cc. anhyd. petr. ether gave 16 g. mixt. of bromides of II and of
     2,6-dimethyl-8-bromo-6-octene, the mixt. refluxed 10 hrs. with 13 g.
     anhyd. NaOAc and 180 cc. HOAc gave a mixt. of III (b0.3 73.degree.) and
ΙV
     (b12 120.degree.). The structures of many of the compds. synthesized
were
    confirmed by infrared spectra.
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AN 1963:67080 CAPLUS

DN 58:67080 OREF 58:11525a-c

ŧ

TI Epoxy resins from unsaturated compounds; synthesis and properties. II

AU Brojer, Zbigniew; Penczek, Piotr; Penczek, Stanislaw

CS Inst. Synthetic Plastics, Warsaw

SO Przemysl Chemiczny (1962), 41, 684-7

CODEN: PRCHAB; ISSN: 0033-2496

DT Journal

LA Unavailable

AB cf. CA 58, 625c. Methods of synthesis and applications of epoxy resins obtained from unsatd. compds. by the use of AcOOH as oxidant are discussed. New products of high resistance, such as dicyclopentadiene dioxide, solvent-free varnish resins of the type of Epoxide 201, as well as cold-hardened cast resins, and solvents, such as vinylcyclohexene dioxide (Epoxide 206), are described in detail. There are also considered

olefin and terpene oxides, epoxy polybutadiene resins (Oxiron resins), as well as epoxidized vegetable oils, e.g. soybean oil, with special reference to industrial applications. The epoxidized esters of styrene and nonsatd. fatty acids appear to be of special value as stabilizers and softeners for poly(vinyl chloride) and other Cl-contg. polymers.

| L Number |            |   | DB                | Time et          |
|----------|------------|---|-------------------|------------------|
| -        | 13         | 3 ("6303219" "5659004" "5523137" "5340851"                                  | USPAT;            | Time stamp       |
|          |            | "5827908").pn.  | US-PGPUB;         | 2003/01/08 14:5  |
|          |            |   | EPO; JPO;         |                  |
|          |            |   | DERWENT;          |                  |
|          |            |   | IBM TDB           |                  |
| -        | 2          | 2   jp-07268066-\$.did.   | USPAT;            | 2003/01/08 13:4  |
|          |            |   | US-PGPUB;         | 2003/01/08 13:4  |
|          |            |   | EPO; JPO;         | İ                |
|          |            |   | DERWENT;          |                  |
|          | _          |   | IBM TDB           |                  |
| _        | 1          | jp-07264595-\$.did.   | USPAT;            | 2003/01/09 09:3  |
|          |            |   | US-PGPUB;         | 2003/01/03 09.3  |
|          | j          |   | EPO; JPO;         |                  |
|          |            |   | DERWENT;          |                  |
| _        | 2          | in 000004505 A N.   | IBM TDB           |                  |
|          |            | jp-08264595-\$.did.   | USPĀT;            | 2003/01/08 13:4  |
|          |            |   | US-PGPUB;         | 131,02,00 13.4   |
|          |            |   | EPO; JPO;         |                  |
|          |            |   | DERWENT;          |                  |
| _        | 2          | in-06279729 e ata   | IBM_TDB           |                  |
|          | 2          | jp-06279739-\$.did.   | USPAT;            | 2003/01/08 13:4  |
|          |            |   | US-PGPUB;         |                  |
|          |            |   | EPO; JPO;         |                  |
|          |            |   | DERWENT;          |                  |
| •        | 2          | jp-06338681-\$.did.   | IBM_TDB           |                  |
|          |            | JP 0000001-9.010.   | USPAT;            | 2003/01/08 13:4  |
|          | 1          |   | US-PGPUB;         |                  |
|          |            |   | EPO; JPO;         |                  |
|          | 1          |   | DERWENT;          |                  |
|          | 212995     | (epox?\$3 near (resin\$ or novola?)) or                                     | IBM_TDB           |                  |
|          |            | dienox?\$3 or polyopox?\$3 or diel  | USPAT;            | 2003/06/06 11:2  |
|          |            | <pre>diepox?\$3 or polyepox?\$3 or diglycidyl\$ or<br/>polyglycidyl\$</pre> | US-PGPUB;         |                  |
|          |            | 1 1 5 - 1 0 1 0 1 1 7   | EPO; JPO;         |                  |
|          |            |   | DERWENT;          |                  |
|          | 629        | ((epox?\$3 near (resin\$ or novola?)) or                                    | IBM_TDB           |                  |
|          |            | diepox?\$3 or polyepox?\$3 or diglycidyl\$ or                               | USPĀT;            | 2003/01/08 14:03 |
|          |            | polyglycidyl\$) near10 terpene  | US-PGPUB;         |                  |
|          |            | 13 1 Mario ccipene  | EPO; JPO;         |                  |
|          |            |   | DERWENT;          |                  |
|          | 1035       | ((epox?\$3 near (resin\$ or novola?)) or                                    | IBM_TDB<br>USPAT; | 2002/01/00 1     |
|          |            | diepox?\$3 or polyepox?\$3 or dialycidyl\$ or                               | US-PGPUB;         | 2003/01/08 14:48 |
|          |            | polyglycidyl\$) near10 biphenyl   | EPO; JPO;         |                  |
|          |            |   | DERWENT;          |                  |
| 1        | <b>—</b> - |   | IBM_TDB           |                  |
|          | 778902     | adhesive  | USPAT;            | 2003/01/00 14 ** |
|          |            |   | US-PGPUB:         | 2003/01/08 14:49 |
|          |            |   | EPO; JPO;         |                  |
|          | İ          |   | DERWENT;          |                  |
|          | 1227604    |   | IBM TDB           |                  |
|          | 1337691    | semiconductor or printed adj circuit  | USPAT;            | 2003/01/08 14:49 |
|          |            | -<br>-  | US-PGPUB;         |                  |
| 1        |            |   | EPO; JPO;         |                  |
|          |            |   | DERWENT;          |                  |
|          | 1363600    |   | IBM TDB           |                  |
|          | 1363689    | semiconductor or printed adj circuit or                                     | USPAT;            | 2003/01/09 10:29 |
|          |            | microelectronic day cricuit of  | US-PGPUB;         | 1, 54, 65 10.25  |
|          |            |   | EPO; JPO;         |                  |
|          |            |   | DERWENT;          |                  |
|          | 7          | //  | IBM TDB           |                  |
|          | ′          | ((epox?\$3 near (resin\$ or novola?)) or                                    | USPAT;            | 2003/01/08 14:50 |
| 1        | 1          | diepox?\$3 or polyepox?\$3 or dialycidule or                                | US-PGPUB;         | -, y=, 00 14.00  |
| 1        |            | polyglycidyl\$) near10 dicylcopentadiene                                    | EPO; JPO;         |                  |
|          |            |   | DERWENT;          |                  |
|          | 123821     | thormonlandia   | IBM TDB           |                  |
| ĺ        | 123021     | thermoplastic adj resin   | USPAT;            | 2003/01/08 14:51 |
|          | 1          |   | US-PGPUB;         | ,, 14.51         |
|          | 1          |   | EPO; JPO;         |                  |
| 1        |            |   | DERWENT;          |                  |
|          |            |   | •                 |                  |

| - | 369616  | thermoplastic  | USPAT;                 | 2003/01/00 00 50   |
|---|---------|--|------------------------|--------------------|
|   |         | 1  | US-PGPUB;              | 2003/01/09 09:52   |
|   |         |  | EPO; JPO;              |                    |
|   |         |  | DERWENT;               |                    |
|   | 250000  |  | IBM TDB                |                    |
| - | 369820  | thermoplastic  | USPAT;                 | 2003/01/09 10:29   |
|   |         |  | US-PGPUB;              | 100,000            |
|   |         |  | EPO; JPO;              |                    |
|   |         |  | DERWENT;               |                    |
| _ | 485719  | tape   | IBM_TDB                |                    |
|   | 403713  | cape   | USPAT;                 | 2003/01/09 10:29   |
|   |         |  | US-PGPUB;              |                    |
|   |         |  | EPO; JPO;              |                    |
|   |         |  | DERWENT;               |                    |
| _ | 217358  | tab  | IBM_TDB<br>USPAT;      | 2002/01/00 10 00   |
|   |         |  | US-PGPUB;              | 2003/01/09 10:29   |
|   |         |  | EPO; JPO;              |                    |
|   |         |  | DERWENT;               |                    |
|   |         |  | IBM TDB                |                    |
| - | 29560   | thermoplastic and tape   | USPAT;                 | 2003/01/09 10:29   |
|   |         |  | US-PGPUB;              | 2000, 01, 03 10.23 |
|   |         |  | EPO; JPO;              |                    |
|   |         |  | DERWENT;               |                    |
|   | 1364513 | Somi conductor   | IBM_TDB                |                    |
|   | 1304313 | semiconductor or printed adj circuit or microelectronic  | USPAT;                 | 2003/01/09 10:30   |
|   |         | microelectionic  | US-PGPUB;              |                    |
|   |         |  | EPO; JPO;              |                    |
|   |         |  | DERWENT;               |                    |
| - | 779454  | adhesive   | IBM_TDB                |                    |
|   |         |  | USPAT;                 | 2003/01/09 10:30   |
|   |         |  | US-PGPUB;<br>EPO; JPO; |                    |
|   |         |  | DERWENT;               |                    |
|   |         |  | IBM TDB                |                    |
| - | 17986   | (thermoplastic and tape) and adhesive  | USPAT;                 | 2003/01/09 10:30   |
|   |         | • ,  | US-PGPUB;              | 2003/01/09 10:30   |
|   |         |  | EPO; JPO;              |                    |
|   |         |  | DERWENT;               |                    |
|   | 213150  | ( 000  | IBM TDB                |                    |
|   | 213130  | (epox?\$3 near (resin\$ or novola?)) or  | USPAT;                 | 2003/01/09 10:31   |
|   |         | <pre>diepox?\$3 or polyepox?\$3 or diglycidyl\$ or<br/>polyglycidyl\$</pre>                        | US-PGPUB;              |                    |
|   |         | polyglyclayis  | EPO; JPO;              |                    |
|   |         |  | DERWENT;               |                    |
| - | 631     | ((epox?\$3 near (resin\$ or novola?)) or   | IBM_TDB                |                    |
|   |         | diepox?\$3 or polyepox?\$3 or diglycidyl\$ or  | USPAT;                 | 2003/01/09 10:33   |
|   |         | polyglycidyl\$ ) near10 terpene  | US-PGPUB;              |                    |
|   |         | 1 - 13-10-w114 / Medilo Celpene  | EPO; JPO;              |                    |
|   |         |  | DERWENT;               |                    |
| _ | 1036    | ((epox?\$3 near (resin\$ or novola?)) or   | IBM_TDB<br>USPAT;      | 3003/01/00 10 31   |
|   |         | diepox?\$3 or polyepox?\$3 or diglycidyl\$ or  | US-PGPUB;              | 2003/01/09 10:31   |
|   |         | polyglycidyl\$ ) near10 biphenyl   | EPO; JPO;              |                    |
|   |         | - <b>.</b>   | DERWENT;               |                    |
|   |         |  | IBM TDB                |                    |
| - | 1237    | ((epox?\$3 near (resin\$ or novola?)) or   | USPAT;                 | 2003/01/09 10:32   |
|   |         | diepox?\$3 or polyepox?\$3 or dialycidyl\$ or  | US-PGPUB;              | 2000,01,00 10.32   |
|   |         | polyglycidyl\$ ) near10 dicyclopentadiene  | EPO; JPO;              |                    |
|   |         |  | DERWENT;               |                    |
| _ | 306     | 111/22 200   | IBM TDB                |                    |
|   | 306     | (((epox?\$3 near (resin\$ or novola?)) or  | USPĀT;                 | 2003/01/09 10:32   |
|   |         | diepox?\$3 or polyepox?\$3 or diglycidyl\$ or  | US-PGPUB;              |                    |
|   |         | polyglycidyl\$ ) near10 dicyclopentadiene)   | EPO; JPO;              |                    |
|   |         | and thermoplastic  | DERWENT;               |                    |
| _ | 215     | ///onov363 noon /  | IBM_TDB                |                    |
|   |         | (((epox?\$3 near (resin\$ or novola?)) or  | USPAT;                 | 2003/01/09 10:32   |
|   |         | <pre>diepox?\$3 or polyepox?\$3 or diglycidyl\$ or<br/>polyglycidyl\$ ) near10 biphenyl) and</pre> | US-PGPUB;              |                    |
|   |         | thermoplastic  | EPO; JPO;              |                    |
|   |         |  | DERWENT;<br>IBM TDB    |                    |
|   |         |  | בויוי ואואו            |                    |

| _ | 19   | diepox?\$3 or polyepox?\$3 or dialycidyl\$ or   | USPAT;<br>US-PGPUB;                | 2003/01/09 10:3  |
|---|------|---|------------------------------------|------------------|
|   |      | polyglycidyl\$ ) near10 terpene) and thermoplastic  | EPO; JPO;<br>DERWENT;              |                  |
| _ | 10   | terpene near5 skeleton  | IBM_TDB<br>USPAT;                  | 2003/01/09 10:3  |
|   |      |   | US-PGPUB;<br>EPO; JPO;<br>DERWENT; |                  |
| ~ | 334  | biphenyl near5 skeleton   | IBM_TDB<br>USPAT;                  | 2003/01/09 10:3  |
|   |      |   | US-PGPUB;<br>EPO; JPO;<br>DERWENT; |                  |
| - | 98   | dicyclopentadiene near5 skeleton  | <pre>IBM_TDB USPAT;</pre>          | 2003/01/09 10:34 |
|   |      |   | US-PGPUB;<br>EPO; JPO;<br>DERWENT; |                  |
| - | 4    | ((biphenyl near5 skeleton) and (((epox?\$3 near (resin\$ or novola?)) or diepox?\$3 or  | IBM_TDB<br>USPAT;                  | 2003/01/09 10:39 |
|   |      | <pre>polyepox?\$3 or diglycidyl\$ or<br/>polyglycidyl\$ ) near10 terpene)) and</pre>  | US-PGPUB;<br>EPO; JPO;<br>DERWENT; |                  |
| - | 4    | thermoplastic ((dicyclopentadiene near5 skeleton) and (((epox?\$3 near (resin\$ or novola?)) or                               | IBM_TDB<br>USPAT;<br>US-PGPUB;     | 2003/01/09 10:35 |
|   |      | diepox?\$3 or polyepox?\$3 or diglycidyl\$ or polyglycidyl\$) near10 terpene)) and thermoplastic                              | EPO; JPO; DERWENT;                 |                  |
| - | 4    | ((terpene near5 skeleton) and (((epox?\$3 near (resin\$ or novola?)) or diepox?\$3 or   | IBM_TDB<br>USPAT;<br>US-PGPUB;     | 2003/01/09 10:35 |
|   |      | polyepox?\$3 or diglycidyl\$ or polyglycidyl\$ ) near10 terpene)) and thermoplastic   | EPO; JPO; DERWENT;                 |                  |
| - | 4    | (dicyclopentadiene near5 skeleton) and (((epox?\$3 near (resin\$ or novola?)) or  | IBM_TDB<br>USPAT;<br>US-PGPUB;     | 2003/01/09 10:36 |
|   |      | <pre>diepox?\$3 or polyepox?\$3 or diglycidyl\$ or<br/>polyglycidyl\$ ) near10 terpene)</pre>                                 | EPO; JPO; DERWENT;                 |                  |
| _ | 7    | (biphenyl near5 skeleton) and (((epox?\$3 near (resin\$ or novola?)) or diepox?\$3 or   | IBM_TDB<br>USPAT;<br>US-PGPUB;     | 2003/01/09 10:36 |
|   |      | polyepox?\$3 or diglycidyl\$ or polyglycidyl\$ ) near10 terpene)  | EPO; JPO;<br>DERWENT;<br>IBM TDB   |                  |
| - | 22   | (terpene near5 skeleton) and (((epox?\$3 near (resin\$ or novola?)) or diepox?\$3 or  | USPĀT;<br>US-PGPUB;                | 2003/01/09 10:38 |
|   |      | polyepox?\$3 or diglycidyl\$ or polyglycidyl\$ ) near10 terpene)  | EPO; JPO;<br>DERWENT;<br>IBM TDB   |                  |
| - | 140  | diepox?\$3 or polyepox?\$3 or diglycidyl\$ or polyglycidyl\$ ) near10 biphenyl) and   | USPAT;<br>US-PGPUB;<br>EPO; JPO;   | 2003/01/09 11:21 |
|   | 38   | thermoplastic ) and (semiconductor or printed adj circuit or microelectronic )  | DERWENT;<br>IBM_TDB                |                  |
|   |      | ((((epox?\$3 near (resin\$ or novola?)) or diepox?\$3 or polyepox?\$3 or diglycidyl\$ or polyglycidyl\$ ) near10 terpene) and | USPAT;<br>US-PGPUB;<br>EPO; JPO;   | 2003/01/09 13:16 |
|   | 72   | thermoplastic ) and (semiconductor or printed adj circuit or microelectronic ) ((((epox?\$3 near (resin\$ or novola?)) or     | DERWENT;<br>IBM_TDB                | 2002/01/02       |
|   |      | <pre>diepox?\$3 or polyepox?\$3 or diglycidyl\$ or<br/>polyglycidyl\$ ) near10 dicyclopentadiene)</pre>                       | USPAT;<br>US-PGPUB;<br>EPO; JPO;   | 2003/01/09 11:20 |
|   | 6172 | and thermoplastic ) and (semiconductor or printed adj circuit or microelectronic ) tape adj automated adj bonding             | DERWENT; IBM_TDB USPAT;            | 2003/01/09 11:21 |
|   |      |   | US-PGPUB;<br>EPO; JPO;             | 2003/01/09 11:21 |
|   |      |   | DERWENT;<br>IBM_TDB                | <br>             |

| - | 2       | ((((epox?\$3 near (resin\$ or novola?)) or  | USPAT;                 | 2003/01/00 11 01                        |
|---|---------|---|------------------------|---|
|   |         | diepox?\$3 or polyepox?\$3 or diglycidyl\$ or   | US-PGPUB;              | 2003/01/09 11:21                        |
|   |         | polyglycidyl\$ ) near10 terpene) and  | EPO; JPO;              |   |
|   |         | thermoplastic ) and (tape adj automated   | DERWENT;               |   |
|   |         | adj bonding)  | IBM TDB                |   |
| _ | 4       |   | USPAT;                 | 2003/01/09 14:29                        |
|   |         | diepox?\$3 or polyepox?\$3 or diglycidyl\$ or   |                        |   |
|   |         | polyglycidyl\$ ) near10 biphenyl) and   | EPO; JPO;              |   |
|   |         | thermoplastic ) and (tape adj automated adj bonding)  | DERWENT;               |   |
| _ | 38      |   | IBM_TDB                |   |
|   |         | diepox?\$3 or polyepox?\$3 or diglycidyl\$ or   | USPAT;                 | 2003/01/09 13:17                        |
|   |         | polyglycidyl\$ ) near10 terpene) and  | US-PGPUB;<br>EPO; JPO; |   |
|   |         | thermoplastic ) and (semiconductor or   | DERWENT;               |   |
|   |         | printed adj circuit or microelectronic  | IBM TDB                |   |
| _ | 2       | 5679978.pn.   | USPAT;                 | 2003/01/09 14:29                        |
|   |         |   | US-PGPUB;              | _ = = = = = = = = = = = = = = = = = = = |
|   |         |   | EPO; JPO;              |   |
|   |         |   | DERWENT;               |   |
| _ | 7       | ///opoy3¢3 noon /main@  | IBM_TDB                |   |
|   | ,       | 1 ( ( (obou. to mear (resting of Hoverail) Ut   | USPAT;                 | 2003/01/09 14:39                        |
|   |         | <pre>diepox?\$3 or polyepox?\$3 or diglycidyl\$ or<br/>polyglycidyl\$ ) near10 dicyclopentadiene)</pre> | US-PGPUB;              |   |
|   |         | and thermoplastic ) and (tape adj   | EPO; JPO;              |   |
|   |         | automated adj bonding)  | DERWENT;<br>IBM TDB    |   |
| - | 7       | ((((epox?\$3 near (resin\$ or novola?)) or  | USPAT;                 | 2003/01/09 14:39                        |
|   |         | diepox?\$3 or polyepox?\$3 or dialycidyls or  | US-PGPUB;              | 2003/01/09 14:39                        |
|   |         | polyglycidyl\$ ) near10 dicyclopentadiene)  | EPO; JPO;              |   |
|   |         | and thermoplastic ) and (tape adj   | DERWENT;               |   |
|   | 010000  | automated adj bonding)  | IBM TDB                |   |
| _ | 219832  | 1 (-L ) HOWE (ECSTING OF HOVOIDE)   | USPAT;                 | 2003/06/06 11:24                        |
|   |         | diepox?\$3 or polyepox?\$3 or diglycidyl\$ or   | US-PGPUB;              |   |
|   |         | polyglycidyl\$  | EPO; JPO;              |   |
|   |         |   | DERWENT;               |   |
| _ | 382234  | thermoplastic   | IBM_TDB                |   |
|   |         | · · · · · · · · · · · · · · · · · · ·   | USPAT;                 | 2003/06/06 11:24                        |
|   |         |   | US-PGPUB;<br>EPO; JPO; |   |
|   |         |   | DERWENT;               |   |
|   |         |   | IBM TDB                |   |
| _ | 1050122 | acrylonitrile adj butadiene adj styrene or  | USPAT;                 | 2003/06/06 11:27                        |
|   |         | abs or acrylonitrile adi butadiene or   | US-PGPUB;              |   |
|   |         | styrene adj butadiene adj ethylene or sebs  | EPO; JPO;              |   |
|   |         | or polyvinyl adj butyral or polyamide or  | DERWENT;               |   |
|   |         | polyester or polyimide or polyamideimide or polyurethane  | IBM_TDB                |   |
| _ | 126855  | (cooh or acid or carboxy\$3) near5  | 110777                 | 0000/==:::                              |
|   |         | ((acrylic or acrylate) near5 (resin or  | USPAT;                 | 2003/06/06 11:28                        |
|   |         | copolymer\$2 or rubber or polymer\$2 or   | US-PGPUB;<br>EPO; JPO; |   |
|   |         | oligomer\$2)) or polyacrylate   | DERWENT;               |   |
|   |         | - <del>-</del>  | IBM TDB                |   |
| - | 812569  | adhesive  | USPAT;                 | 2003/06/06 11:29                        |
|   |         |   | US-PGPUB;              | -333,33,00 11.29                        |
|   |         |   | EPO; JPO;              |   |
|   |         |   | DERWENT;               |   |
| _ | 15621   | digualopoptodiana   | IBM_TDB                |   |
|   | 13021   | dicyclopentadiene   | USPAT;                 | 2003/06/06 11:29                        |
|   |         |   | US-PGPUB;              |   |
|   |         |   | EPO; JPO;              |   |
|   |         |   | DERWENT;               |   |
| - | 42297   | biphenyl  | IBM_TDB<br>USPAT;      | 2002/06/06 11 05                        |
|   |         | - •   | US-PGPUB;              | 2003/06/06 11:30                        |
|   |         |   | EPO; JPO;              |   |
|   |         |   | DERWENT;               |   |
|   |         |   | IBM TDB                |   |
| - | 19419   | terpene   | USPAT;                 | 2003/06/06 11:30                        |
|   |         |   | US-PGPUB;              | 1 7 5 5 7 5 5 11.50                     |
|   |         |   | EPO; JPO;              |   |
|   | ı       |   | DERWENT;               |   |
|   | 1       | I   | IBM TDB                |   |

Page 4

|   | 100     |  |                                    |                  |
|---|---------|--|------------------------------------|------------------|
| - | 1314    | diepox?\$3 or polyepox?\$3 or dialycidyls or   | USPAT;<br>US-PGPUB;                | 2003/06/06 11:30 |
|   |         | polyglycidyl\$) near10 dicyclopentadiene   | EPO; JPO;<br>DERWENT;              |                  |
| - | 1126    | diepox?\$3 or polyepox?\$3 or dialycidyl\$ or  | IBM_TDB<br>USPAT;<br>US-PGPUB;     | 2003/06/06 11:30 |
|   |         | polyglycidyl\$ ) near10 biphenyl   | EPO; JPO;<br>DERWENT;              |                  |
| - | 675     | ((epox?\$3 near (resin\$ or novola?)) or diepox?\$3 or polyepox?\$3 or diglycidyl\$ or   | IBM_TDB<br>USPAT;                  | 2003/06/06 11:30 |
|   |         | polyglycidyl\$ ) near10 terpene  | US-PGPUB;<br>EPO; JPO;<br>DERWENT; |                  |
| _ | 1350051 | thermoplastic or (acrylonitrile adj<br>butadiene adj styrene or abs or   | IBM_TDB<br>USPAT;<br>US-PGPUB;     | 2003/06/06 11:30 |
|   |         | acrylonitrile adj butadiene or styrene adj<br>butadiene adj ethylene or sebs or  | EPO; JPO;<br>DERWENT;              |                  |
|   |         | polyvinyl adj butyral or polyamide or polyester or polyimide or polyamideimide or polyurethane) or ((cooh or acid or           | IBM_TDB                            |                  |
|   |         | carboxy\$3) near5 ((acrylic or acrylate) near5 (resin or copolymer\$2 or rubber or   |                                    |                  |
| - | 2644979 | polymer\$2 or oligomer\$2)) or polyacrylate) semiconductor or printed adj circuit or electronic                                | USPAT;<br>US-PGPUB;                | 2003/06/06 11:32 |
|   |         |  | EPO; JPO;<br>DERWENT;              |                  |
| - | 176     | ((((epox?\$3 near (resin\$ or novola?)) or diepox?\$3 or polyepox?\$3 or diglycidyl\$ or                                       | IBM_TDB<br>USPAT;<br>US-PGPUB;     | 2003/06/06 11:32 |
|   |         | and adhesive and (thermoplastic or   | EPO; JPO;<br>DERWENT;              |                  |
|   |         | or abs or acrylonitrile adj butadiene adj styrene  | IBM_TDB                            |                  |
|   |         | styrene adj butadiene adj ethylene or sebs or polyvinyl adj butyral or polyamide or polyester or polyimide or polyamideimide   |                                    |                  |
|   |         | carboxy\$3) near5 ((acrylic or acrylate)   |                                    |                  |
|   |         | nears (resin or copolymer\$2 or rubber or polymer\$2 or oligomer\$2)) or   |                                    |                  |
| _ |         | polyacrylate))) and (semiconductor or printed adj circuit or electronic)   |                                    |                  |
|   |         | ((((epox?\$3 near (resin\$ or novola?)) or diepox?\$3 or polyepox?\$3 or diglycidyl\$ or polyglycidyl\$ ) near10 biphenyl) and | USPAT;<br>US-PGPUB;                | 2003/06/06 11:32 |
|   |         | adhesive and (thermoplastic or (acrylonitrile adi butadiene adi styrene  | EPO; JPO;<br>DERWENT;<br>IBM TDB   |                  |
|   |         | or abs or acrylonitrile adj butadiene or sebs   styrene adj butadiene adj ethylene or sebs                                     | 1511_155                           |                  |
|   |         | or polyvinyl adj butyral or polyamide or polyester or polyimide or polyamideimide  |                                    |                  |
|   |         | or polyurethane) or ((cooh or acid or carboxy\$3) near5 ((acrylic or acrylate) near5 (resin or copolymer\$2 or rubber or       |                                    |                  |
|   |         | polymer\$2 or oligomer\$2)) or polyacrylate))) and (semiconductor or   |                                    |                  |
|   | 1       | printed adj circuit or electronic)   |                                    |                  |

| _   | 9      | - 1 ( ) ( CPON · YO MEGI (LESTING OF NOTO 1 = 2) ) ox                          | USPAT;      | 2003/06/06 11:5  |
|-----|--------|--|-------------|------------------|
|     |        | diepox:33 or polvepox?83 or diglycidule on                                     | US-PGPUB;   | 2003/06/06 11:5  |
|     |        | POINGINGING ) Nearl() ternene) and   | EPO; JPO;   |                  |
|     |        | adnesive and (thermoplastic or   | DERWENT;    |                  |
|     |        | (acrylonitrile adi butadiene adi sturono                                       | IBM TDB     |                  |
|     |        | of abs or acrylonitrile adi hutadiana on                                       | -           |                  |
|     |        | Styrene ad   Dutadiene adi ethylene or sobo                                    |             |                  |
|     |        | or polyvinyl add butyral or polyamide on                                       |             |                  |
|     |        | polyester or polyimide or polyamidoimide                                       |             |                  |
|     |        | or poryurethane) or ((cooh or acid or  |             |                  |
|     |        | Calboxy93) near5 ((acrylic or acrylate)  |             |                  |
|     |        | Heald (resin or conditmers) or rubbon on                                       |             |                  |
|     |        | Polymeraz or oligomers2)) or   |             |                  |
|     |        | POlyacrylate))) and "27"   |             |                  |
| -   | 187    | (((epox?\$3 near (resin\$ or novola2)) or                                      | HCDAT.      | 2002/05/25       |
|     |        | ulepox(3) or polyepox(3) or diglygidule  | USPAT;      | 2003/06/06 11:3  |
|     |        | POLYGICYIP ) nearl() ternene) and  |             |                  |
|     |        | dulesive and (thermoplastic or   | EPO; JPO;   |                  |
|     |        | (acrylonitrile adj butadiene adj styrene                                       | DERWENT;    |                  |
|     |        | Jor and or acrylonitrile add butadions and                                     | IBM_TDB     |                  |
|     |        | styrene adj butadiene adj ethylene or sebs                                     |             |                  |
|     | 1      | or polyvinyl adj butyral or polyamide or                                       |             |                  |
|     |        | polyester or polyimide or polyamideimide                                       |             |                  |
|     |        | or polyurethane) or ((cooh or acid or  |             |                  |
|     |        | carboxy\$3) near5 ((acrylic or acrylate)                                       |             |                  |
|     |        | near5 (resin or copolymer\$2 or rubber or                                      |             |                  |
|     |        | polymer\$2 or oligomer\$2)) or   |             |                  |
|     |        | polyacrylate))   |             |                  |
| -   | 230    | (((epox?\$3 near (resin\$ or novola?)) or                                      |             |                  |
|     |        | diepox?\$3 or polyepox?\$3 or diglycidyl\$ or                                  | USPAT;      | 2003/06/06 11:51 |
|     | 1      | polyglycidyl\$ ) near10 biphenyl) and  | US-PGPUB;   |                  |
|     |        | adhesive and (thermoplastic or   | EPO; JPO;   |                  |
|     |        | (acrylonitrile adj butadiene adj styrene                                       | DERWENT;    |                  |
|     |        | or abs or acrylonitrile adj butadiene or                                       | IBM_TDB     |                  |
|     |        | styrene adi butadione adi atti   |             |                  |
|     |        | styrene adj butadiene adj ethylene or sebs                                     |             |                  |
|     |        | or polyvinyl adj butyral or polyamide or                                       |             |                  |
|     |        | polyester or polyimide or polyamideimide or polyurethane) or ((cooh or acid or |             |                  |
|     |        | carboxy\$3) near5 (/agrulia  |             |                  |
|     |        | carboxy\$3) near5 ((acrylic or acrylate)                                       |             |                  |
| į   |        | near5 (resin or copolymer\$2 or rubber or polymer\$2 or oligomer\$2)) or       |             |                  |
|     |        | polyacrylate))   |             |                  |
|     | 102404 | (lenox2\$3 poor /rocint  |             |                  |
|     |        | ((epox?\$3 near (resin\$ or novola?)) or                                       | USPAT;      | 2003/06/06 11:51 |
|     |        | diepox?\$3 or polyepox?\$3 or diglycidyl\$ or                                  | US-PGPUB;   | 1                |
|     |        | polyglycidyls ) and (thermoplastic or  | EPO; JPO;   |                  |
|     |        | (acrylonitrile adj butadiene adj styrene                                       | DERWENT;    |                  |
|     |        | or and of dervionitrile add butadions on I                                     | IBM TDB     |                  |
|     |        | styrene adj butadiene adj ethylene or sebs                                     | <del></del> |                  |
|     |        | or polyvinyl adj butyral or polyamide or                                       |             |                  |
|     | 1      | polyester or polyimide or polyamidoimide                                       |             |                  |
| 1   |        | or polyulethane) or ((cooh or acid or  |             |                  |
|     |        | carboxy\$3) near5 ((acrylic or acrylate)                                       |             |                  |
| 1   |        | neals (resin or copolymers) or rubbor or                                       |             |                  |
|     | ļ      | polymersz or oligomersz)) or   |             |                  |
|     | 24708  | polyacrylate))   |             |                  |
|     |        | (((epox?\$3 near (resin\$ or novola?)) or                                      | USPAT;      | 2003/06/06 11:51 |
|     |        | diepox:93 or polyepox?83 or diglygidule and                                    | US-PGPUB;   | 2003/00/00 11:31 |
|     |        | PorygryCldyla ) and (thermonlastic or  | EPO; JPO;   |                  |
|     | 1      | (dcryionitrile adi butadiene adi sturono                                       | DERWENT;    |                  |
|     |        | of abs of acrylonitrile adi butadions  | IBM TDB     |                  |
| - 1 | i      | orale add butadiene add ethylono on  | -2.1_100    |                  |
|     | - 1    | or polyvinyl add butyral or polyamide and                                      |             |                  |
|     |        | polyester or polyimide or polyamidoimida                                       | 1           |                  |
|     | 1      | or polyurethane) or ((cooh or acid or  |             |                  |
|     | i i    | carboxy\$3) near5 ((acrylic or acrylate)                                       |             |                  |
|     | 1      | nears (resin or copolymers) or rubbon and                                      |             |                  |
|     | 1.     | Polymeraz or oligomersz)) or   |             |                  |
| 1   | ] :    | Polyacrylate))) and (semiconductor or  |             | i                |
|     |        | printed adj circuit or electronic)   |             |                  |

|   |        | 9 ((((epox;\$3 near (resin\$ or novola?)) or diepox;\$3 or polyepox;\$3 or diglycidyl\$ or polyglycidyl\$ or |                        |                  |
|---|--------|--|------------------------|------------------|
|   |        | polyglycidyls ) near10 terpene) and adhesive and (thermoplastic or   | EPO; JPO;              |                  |
|   |        | (acrytonitrile add butadieno add atoms   | DERWENT;               |                  |
|   |        | 1 Of and of activity in a sai har in   | IBM_TDB                |                  |
|   |        | Degreene au Dutadiene adi ethulone ,   |                        |                  |
|   |        |  |                        |                  |
|   |        | polyester or polyimide or polyamideimide or polyurethane) or ((cooh or acid or                               |                        |                  |
|   |        | (acrylic or semilation   |                        |                  |
|   |        | 1  |                        |                  |
|   |        | POTYMETAL OF OHIGOMERSON OF  |                        |                  |
|   |        | polyacrylate))) and (semiconductor or printed adj circuit or electronic)                                     |                        |                  |
| ~ | 257097 | laminate   |                        |                  |
|   |        |  | USPAT;                 | 2003/06/06 12:00 |
|   |        |  | US-PGPUB;<br>EPO; JPO; |                  |
|   |        |  | DERWENT;               |                  |
| - | 6258   | (((lepox2\$3 poar /maxima  | IBM TDB                |                  |
|   |        | ((((epox?\$3 near (resin\$ or novola?)) or diepox?\$3 or polyepox?\$3 or diglycidyl\$ or polyglycidyl\$ or   | USPĀT;                 | 2003/06/06 12:00 |
|   |        |  | US-PGPUB;              |                  |
|   |        | \actyronittfile add butadions add -+   | EPO; JPO; DERWENT;     |                  |
|   |        |  | IBM TDB                |                  |
|   |        | styrene adj butadiene adj ethylene or sebs<br>or polyvinyl adj butyral or polyamide or                       | _                      |                  |
|   |        | Porticater of polyimide or polyimide in  |                        |                  |
|   |        | 1 Po-reculation of 11000b ox said -  |                        |                  |
|   |        | rearboxygo, nearb (lacrylic on ) .   |                        |                  |
|   |        | I COLO I (MORCO AMI-I-   |                        |                  |
|   |        | polymer\$2 or oligomer\$2)) or<br>polyacrylate))) and (semiconductor or                                      |                        |                  |
|   |        | Princed ad Circuit or aloctronicity  |                        |                  |
|   | 417    | raminace   |                        |                  |
|   | 417    | (((epox?\$3 near (resin\$ or novola?)) or  | USPAT;                 | 2003/06/06 13:18 |
|   |        | archovers of DOLABOANS or disless in   | US-PGPUB;              | 2003/06/06 13:18 |
|   |        | polyglycidyl\$ ) near10 dicyclopentadiene) and adhesive and (thermoplastic or                                | EPO; JPO;              |                  |
|   |        | Additional add but added and add at  | DERWENT;               |                  |
|   |        | or app of activity to add but it   | IBM_TDB                |                  |
|   |        | officine add butaniene add others  |                        |                  |
|   |        |  |                        |                  |
|   |        | polyester or polyimide or polyamideimide or polyurethane) or ((cooh or acid or                               |                        |                  |
|   | I      | oursonypo/ Hedro (lacrylic on second )   |                        |                  |
| 1 |        |  |                        |                  |
|   |        | polymer\$2 or oligomer\$2)) or polyacrylate))  |                        |                  |
|   | 116    | ((((epox?\$3 near /roging  |                        |                  |
|   |        | TOPOX: 75 OF POIVEDOX?S3 or dialication 1  | USPAT;                 | 2003/06/06 13:18 |
|   |        |  | US-PGPUB;              |                  |
|   |        | and addlesive and (thermonlastic and   | EPO; JPO;<br>DERWENT;  |                  |
|   | 1      | (dolylonitufile add butadions add  | IBM TDB                |                  |
|   |        | styrene adi butadiene or   | _                      |                  |
|   |        | styrene adj butadiene or polyvinyl adj butadiene or polyvinyl adj butyral or polyamide or                    |                        |                  |
|   | 1 1    | TOTAL OF DOINIMING OF SOILE  |                        |                  |
|   | '      | Poryure chanel or ((cook or said   |                        |                  |
|   | , ,    | Carpory 13/ nears ((acrylic or company)  |                        |                  |
|   | 1 -    | near5 (resin or copolymer\$2 or rubber or polymer\$2 or oligomer\$2)) or                                     |                        |                  |
| 1 | 1 7    | oolyacrylate))) and tape   |                        |                  |

|     | diepox?\$3 or polyepox?\$3 or diglycidyl\$ or polyglycidyl\$) near10 dicyclopentadiene) and adhesive and (thermoplastic or (acrylonitrile adj butadiene adj styrene or abs or acrylonitrile adj butadiene or styrene adj butadiene adj ethylene or sebs or polyvinyl adj butyral or polyamide or polyester or polyimide or polyamide or polyurethane) or ((cooh or acid or carboxy\$3) near5 ((acrylic or acrylate) near5 (resin or copolymer\$2 or rubber or polyamcr\$2 or oligomer\$2)) or polyacrylate))) and tape) and (tab or tape)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/06/06 13:19 |
|-----|---|---|------------------|
| - 9 | adj automated adj bonding)  ((((((epox?\$3 near (resin\$ or novola?)) or diepox?\$3 or polyepox?\$3 or diglycidyl\$ or polyglycidyl\$) near10 dicyclopentadiene) and adhesive and (thermoplastic or (acrylonitrile adj butadiene adj styrene or abs or acrylonitrile adj butadiene or styrene adj butadiene adj ethylene or sebs or polyvinyl adj butyral or polyamide or polyester or polyimide or polyamideimide or polyurethane) or ((cooh or acid or carboxy\$3) near5 ((acrylic or acrylate) near5 (resin or copolymer\$2 or rubber or polymer\$2 or oligomer\$2)) or polyacrylate))) and tape) and (tape adj automated adj bonding) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/06/06 13:21 |

| O ((((((epox?\$3 near (resin\$ or novola?))<br>or diepox?\$3 or polyepox?\$3 or diglycidyl\$<br>or polyglycidyl\$ ) near10 | USPAT;    |                  |
|--|-----------|------------------|
|  | US-PGPUB: | 2003/06/06 13:22 |
|  | EPO; JPO; |                  |
| dicyclopentadiene) and adhesive and  | DERWENT;  |                  |
| (thermoplastic or (acrylonitrile adj   | IBM TDB   |                  |
| butadiene adj styrene or abs or  | -         |                  |
| acrylonitrile adj butadiene or styrene adj   |           |                  |
| account ad l'elliviene or sehe or  |           |                  |
| polyvinyl adj butyral or polyamide or  |           |                  |
| polyester or polyimide or polyamideimide   |           | 1                |
| or polyurethane) or ((cooh or acid or carboxy\$3) near5 ((acrylic or acrylate)   |           |                  |
| near5 (resin or copolymer\$2 or rubber or  |           |                  |
| polymer\$2 or oligomer\$2)) or   |           |                  |
| polyacrylate))) and tape) and (tab or tape   |           |                  |
| adj automated adj bonding)) or   |           |                  |
| ((((((epox?\$3 near (resin\$ or novola3)) are  |           |                  |
| diepox:33 or polvepox?S3 or diglygidule  |           |                  |
| Polyglycldyla   near() dicyclopentadional  |           |                  |
| did dulesive and (thermoplastic or   |           |                  |
| (acrylonitrile adi butadiana adi atumana   |           |                  |
| Of abs of dervionitrile add butadians  |           |                  |
| Stylene du   Dilladiene adi othylogo   |           |                  |
| l of Poryvilly aul Durvral or polyamida and  |           |                  |
| Polyester of polyimide or polyamidaimid-   |           |                  |
| or polyurethane) or ((cooh or acid or  |           |                  |
| carboxy\$3) near5 ((acrylic or acrylate)   |           |                  |
| near5 (resin or copolymer\$2 or rubber or polymer\$2 or oligomer\$2)) or   |           |                  |
| polyacrylate))) and tape) and (tape adj  |           |                  |
| automated adj bonding)) not (((((epox?\$3  |           |                  |
| near (resin\$ or novola?)) or diepox?\$3 or  |           |                  |
| Polyepox:33 or dialyciduls or  |           |                  |
| Polyglycidyl\$ ) near10 dicyclopoptadia  |           |                  |
| and addressive and (thermon)astic or   |           |                  |
| (acrylonitrile adj butadiene adj stument   |           |                  |
| or abs or acrylonitrile add butadions and  |           |                  |
| stylene du puladiene adi ethulono an all   |           |                  |
| of Polyvinyl add butvral or polypmide  |           |                  |
| Polyester or polyimide or polyamidoimida   |           |                  |
| or polyutethane) or ((cooh or acid and   |           |                  |
| carboxy93) nearb ((acrylic or agree)   |           |                  |
| nears (resin or copolymers? or rubban and  |           |                  |
| Polymersz of Oligomersz)) or   |           |                  |
| polyacrylate))) and tape) and (tab or tape adj automated adj bonding))   |           |                  |

| 11 (((((((epox?\$3 near (resin\$ or novola?))                            | HODE      |                  |
|--|-----------|------------------|
| 1 or arebox(3) or bolvebox(3) or dialogidale                             | USPAT;    | 2003/06/06 13:22 |
| or polyglycidyl\$ ) near10   | US-PGPUB; |                  |
| dicyclopentadiene) and adhesive and                                      | EPO; JPO; |                  |
| (thermoplastic or (acrylonitrile adj                                     | DERWENT;  |                  |
| butadiene adj styrene or abs or  | IBM_TDB   |                  |
| acrylonitrile adj butadiene or styrene adj                               |           |                  |
| butadiene adj ethylene or sebs or  |           |                  |
| polyvinyl adj butyral or polyamide or                                    |           |                  |
| polyester or polyimide or polyamideimide                                 |           |                  |
| or polyurethane) or ((cooh or acid or                                    |           |                  |
| carboxy\$3) near5 ((acrylic or acrylate)                                 |           |                  |
| near5 (resin or copolymer\$2 or rubber or                                |           |                  |
| polymer\$2 or oligomer\$2)) or   |           |                  |
| polyacrylate))) and tape) and (tab or tape                               |           |                  |
| adj automated adj bonding)) or   |           |                  |
| ((((((epox?\$3 near (resin\$ or novola?)) or                             |           |                  |
| diepox?\$3 or polyepox?\$3 or diglycidyl\$ or                            |           |                  |
| polyglycidyl\$ ) near10 dicyclopentadiene)                               |           |                  |
| and adhesive and (thermoplastic or                                       |           |                  |
| (acrylonitrile adj butadiene adj styrene                                 |           |                  |
| or abs or acrylonitrile adj butadiene or                                 |           |                  |
| styrene adj butadiene or sebs  |           |                  |
| or polyvinyl adj butyral or polyamide or                                 |           |                  |
| polyester or polyimide or polyamideimide                                 |           |                  |
| or polyurethane) or ((cooh or acid or                                    |           |                  |
| carboxy\$3) near5 ((acrylic or acrylate)                                 |           |                  |
| near5 (resin or copolymer\$2 or rubber or                                |           |                  |
| polymer\$2 or oligomer\$2)) or   |           |                  |
| polyacrylate))) and tape) and (tape adj                                  |           |                  |
| automated adj bonding))) not (((((epox?\$3                               |           |                  |
| near (resin\$ or novola?)) or diepox?\$3 or                              |           |                  |
| polyepox?\$3 or diglycidyl\$ or  |           |                  |
| polyglycidyl\$ ) near10 dicyclopentadiene)                               |           |                  |
| and adhesive and (thermoplastic or                                       |           | i                |
| (acrylonitrile adj butadiene adj styrene                                 |           |                  |
| or abs or acrylonitrile adj butadiene or                                 |           |                  |
| styrene adj butadiene adj ethylene or sebs                               |           |                  |
| or polyvinyl adj butyral or polyamide or                                 |           |                  |
| polyester or polyimide or polyamide imide                                |           |                  |
| or polyurethane) or ((cooh or acid or                                    | ]         |                  |
| carboxy\$3) near5 ((acrylic or acrylate)                                 |           |                  |
| near5 (resin or consumers)   |           |                  |
| near5 (resin or copolymer\$2 or rubber or polymer\$2 or oligomer\$2)) or |           |                  |
| polyacrylate))) and tape) and (tape adj                                  |           |                  |
| automated adj bonding))  |           |                  |